



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/964,518	11/05/97	ALVARREZ	TI-19177

WADE JAMES BRADY  
TEXAS INSTRUMENTS INCORPORATED  
PATENT DEPARTMENT M S 219  
P O BOX 65547  
DALLAS TX 75265

MM21/0326

EXAMINER
WILLIAMS, A

ART UNIT	PAPER NUMBER
2811	

DATE MAILED: 03/26/99

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

58/964578

Applicant(s)

Alvarez et al.

Examiner

A Williams

Group Art Unit

2811

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

## Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

## Status

- ☒ Responsive to communication(s) filed on 1/13/99
- ☒ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- ☒ Claim(s) 1-14 is/are pending in the application.
- Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- ☒ Claim(s) 1-14 is/are rejected.
- ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- ☐ Claim(s) \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☒ The proposed drawing correction, filed on 1/13/99 is ☒ approved ☐ disapproved. *by the Examiner*
- ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

\*Certified copies not received: \_\_\_\_\_

## Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- ☒ Notice of References Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other \_\_\_\_\_

Office Action Summary

Application/Control Number: 08/964518

Art Unit: 2811

Serial Number: 08/964518      Attorney's Docket #: T1-19177

Filing Date: 11/5/97;

Applicant: Alvarraz et al.

Examiner: Alexander Williams

Applicant's Amendment in Paper # 3, filed 1/13/99, has been acknowledged.

Applicant's drawing correction in Paper # 3, there within has been approved by the Examiner.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2811

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 14 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hojyo (U.S. Patent # 5,559,364).

In claim 1, Hojyo (**figures 1 to 13**) specifically figure 1 show a leadframe/stabilizer for use with semiconductor devices, comprising: an electrically conductive leadframe **10** having a central semiconductor die receiving region (**within 14**) and a plurality of leadframe leads **12** extending outwardly from said central die receiving region; a stabilizer **14** extending partially along the length of and on each side of said leadframe leads to improve leadframe planarity; and a die pad mount **11** integral with and forming a part of said stabilizer disposed beneath said central semiconductor die receiving region for retaining a semiconductor die thereon.

In claim 2, 7 and 12, Hojyo's stabilizer **14** is made of an insulating material.

In claim 3, 8 and 13, Hojyo's stabilizer **14** is made of a plastic material.

Art Unit: 2811

In claim 4, 9 and 14, Hojyo's stabilizer **14** is made of a ceramic material.

In claim 5, Hojyo's die pad mount **11** has a recess in one surface into which a semiconductor die **22** is mounted.

In claim 6; Hojyo (**figures 1 to 13**) specifically figure 1 show a leadframe/stabilizer for use with semiconductor devices, comprising: an electrically conductive leadframe **10** having a central semiconductor die receiving region (**within 14**) and a plurality of leadframe leads **12** extending outwardly from said central die receiving region; a stabilizer **14** extending partially along the length of and on each side of said leadframe leads to improve leadframe planarity; a die pad mount **11** integral with and forming a part of said stabilizer disposed beneath said central semiconductor die receiving region for retaining a semiconductor die thereon; a recess in one surface of the die pad mount and a semiconductor die **22** mounted in said recess.

In claim 10, Hojyo (**figures 1 to 13**) specifically figure 1 show a method for stabilizing the leads of a lead frame and providing a semiconductor die mount pad, comprising the steps of: providing a leadframe **10** having a central semiconductor die receiving region (**within 14**) and a plurality of leadframe leads **12** extending outwardly from said central die receiving region; adhering a stabilizer **14** along part of the length and on each side of said leadframe leads to improve leadframe planarity; and forming a die pad **11** integral with said stabilizer disposed beneath said central semiconductor die receiving region.

In claim 11, Hojyo forms a recessed area in the die pad **11** for mounting of a semiconductor die **22** in said recessed area.

Art Unit: 2811

## Response

Applicant's arguments filed 1/13/99 have been fully considered, but are moot in view of the new grounds of rejections detailed above.

The insertion of Applicant's additional claimed language, for example, "in claims 1 to 6 and 10" cause for further search and consideration to make this action final.

Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Art Unit: 2811

Field of Search	Date
U.S. Class and subclass: 257/666, 676, 670, 668-672, 677, 678, 673, 717- 719, 726, 727, 797	12/16/98 3/20/99
Other Documentation: foreign patents and literature in 257/666, 676, 670, 668-672, 677, 678, 673, 717- 719, 726, 727, 797	12/16/98 3/20/99
Electronic data base(s): MAYA U.S. Patents	6/5/98 12/16/98

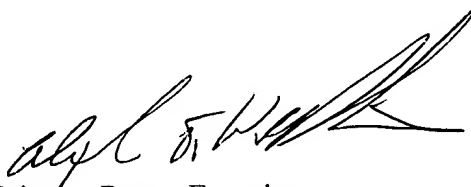
*Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission. Papers should be faxed to Technology Center 2800 via the Technology Center 2800 Fax center located in Crystal Plaza 4-5B15. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center 2800 Fax Center number is (703) 308-7722 or 24. Only Papers related to Technology Center 2800 APPLICATIONS SHOULD BE FAXED to the GROUP 2800 FAX CENTER.*

Art Unit: 2811

Any inquiry concerning this communication or any earlier communication from the examiner should be directed to **Examiner Alexander Williams** whose telephone number is **(703) 308-4863**.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center 2800 receptionist** whose telephone number is **(703) 308-0956**.

March 20, 1999



Primary Patent Examiner  
Alexander O. Williams